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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,575	12/30/2003	John Kam Ho Lee	MCHK/146/US	8074

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EXAMINER	
TRIEU, VAN THANH	

ART UNIT	PAPER NUMBER
2636	

DATE MAILED: 05/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/748,575	LEE, JOHN KAM HO	
	Examiner	Art Unit	
	Van T. Trieu	2636	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 December 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-4* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-4* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by **Hackett** [US 4,360,905].

Regarding claim 1, the claimed alarm system comprising an alarm controller (the intrusion alarm system comprising a control unit 10 having a control circuit 50 for controlling the alarm functions, see Fig. 1,col. 1, lines 57-60, col. 2, lines 61-63 and col. 4, lines 42-68); and the remote input/output device (the remote processor 14 comprises a flashing LED 42 and an annunciator for output to indicate of intrusion upon detecting of motion or intruder, and then feedback the detected signal with flash LED signal to the control unit 10 via a two-conducted cable 12, see Figs. 1, 3, 12A and 12B, col. 3, lines 55-68, col. 4, lines 1-27 and col. 7, lines 21-68); and the cable extending from the alarm controller to the remote input/output device, the cable comprising two conductors providing power to the remote input/output device (the two-conductor cable 12 for providing 11 volts to a remote processor 14, see Fig. 1, col. 2, lines 61-68, col. 3, lines 1-2 and col. 6, lines 6-8); and the signal processor at the controller monitoring and processing voltage and current fluctuations in the conductors and controlling functions

of the alarm system (the control circuit 50 of the controller unit 10 receives/detects feedback signals including increasing/decreasing of voltage according of the flashing LED 42 and changing in the load current flowing through cable 12 from the remote processor 14, and then for actuating the alarm output, resetting the remote processor 14, etc., see Figs. 1-3 and 10-12, col. 1, lines 63-68, col. 2, lines 1-4 and 61-67, col. 4, lines 1-41, col. 6, lines 6-15, col. 7, lines 21-68 and col. 8, lines 14-17).

Regarding claim 2, the claimed mixer at the remote input/output device operative to affect current and voltage at the two conductor, which reads upon the signal processor 38 receiving electrical power and ultrasonic intrusion detector 34 for flashing the LED 42 and annunciator. Both the detected intrusion signal and LED flashing signal are feedback to the control unit 10 for operating the alarm, see Figs. 1, 3, 12A and 12B, col. 3, lines 55-68, col. 4, lines 1-27 and col. 7, lines 21-68.

Regarding claim 3, the claimed signal processor monitors for predefined voltage and current levels at the two conductors (the control circuit 50 monitors of 11 DC volts and load current of 5 mA flowing through the two-conductor cable 12, see col. 6, lines 6-15 and col. 7, lines 21-68).

Regarding claim 4, all the claimed subject matters are cited in respect to claims 2 and 3 above.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Farrell et al discloses a flow sensor for detecting the absence of a minimum fluid flow in a sprinkler system. The two-wire flow sensor system is respectively a power supply and return signal. An alarm is given when current flow in the supply and return wires exceeds a first value or fall below a second value. [US 5,049,860]

Shaw et al discloses an environmental detection system includes a microprocessor-based and control panel connected to one or more remote detector loops having two conducting wires. The remote detector loops receives electrical power through two-conducting wires. [US 5,138,562]

3. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number is (571) 272-2972. The examiner can normally be reached on Mon-Fri from 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. **Jeffery Hofsass** can be reached on (571) 272-2981.

Van Trieu
Primary Examiner
Date: 5/20/05